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* * * * * * * * * * Welcome to STN International * * * * * * * * *

| | |
|----------------|--|
| NEWS 1 | Web Page for STN Seminar Schedule - N. America |
| NEWS 2 JAN 02 | STN pricing information for 2008 now available |
| NEWS 3 JAN 16 | CAS patent coverage enhanced to include exemplified prophetic substances |
| NEWS 4 JAN 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats |
| NEWS 5 JAN 28 | MARPAT searching enhanced |
| NEWS 6 JAN 28 | USGENE now provides USPTO sequence data within 3 days of publication |
| NEWS 7 JAN 28 | TOXCENTER enhanced with reloaded MEDLINE segment |
| NEWS 8 JAN 28 | MEDLINE and LMEDLINE reloaded with enhancements |
| NEWS 9 FEB 08 | STN Express, Version 8.3, now available |
| NEWS 10 FEB 20 | PCI now available as a replacement to DPCI |
| NEWS 11 FEB 25 | IFIREF reloaded with enhancements |
| NEWS 12 FEB 25 | IMSPRODUCT reloaded with enhancements |
| NEWS 13 FEB 29 | WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification |
| NEWS 14 MAR 31 | IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats |
| NEWS 15 MAR 31 | CAS REGISTRY enhanced with additional experimental spectra |
| NEWS 16 MAR 31 | CA/Caplus and CASREACT patent number format for U.S. applications updated |
| NEWS 17 MAR 31 | LPCI now available as a replacement to LDPCI |
| NEWS 18 MAR 31 | EMBASE, EMBAL, and LEMBASE reloaded with enhancements |
| NEWS 19 APR 04 | STN AnaVist, Version 1, to be discontinued |
| NEWS 20 APR 15 | WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats |
| NEWS 21 APR 28 | EMBASE Controlled Term thesaurus enhanced |
| NEWS 22 APR 28 | IMSRESEARCH reloaded with enhancements |
| NEWS 23 MAY 30 | INPAFAMDB now available on STN for patent family searching |
| NEWS 24 MAY 30 | DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option |
| NEWS 25 JUN 06 | EPFULL enhanced with 260,000 English abstracts |
| NEWS 26 JUN 06 | KOREPAT updated with 41,000 documents |
| NEWS 27 JUN 13 | USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications |
| NEWS 28 JUN 19 | CAS REGISTRY includes selected substances from web-based collections |
| NEWS 29 JUN 25 | CA/Caplus and USPAT databases updated with IPC reclassification data |
| NEWS 30 JUN 30 | AEROSPACE enhanced with more than 1 million U.S. patent records |
| NEWS 31 JUN 30 | EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated |

NEWS 32 JUN 30 organizations
STN on the Web enhanced with new STN AnaVist
Assistant and BLAST plug-in
NEWS 33 JUN 30 STN AnaVist enhanced with database content from EPFULL

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 11:01:39 ON 15 JUL 2008

=> file registry
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

| | SINCE FILE | TOTAL |
|--|------------|---------|
| | ENTRY | SESSION |
| | .21 | .21 |

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STRUCTURE FILE UPDATES: 14 JUL 2008 HIGHEST RN 1034013-75-6
DICTIONARY FILE UPDATES: 14 JUL 2008 HIGHEST RN 1034013-75-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

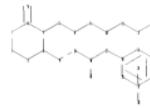
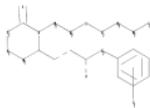
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stnqgen/stndoc/properties.html>

=> Uploading C:\Program Files\Stnexp\Queries\10-564829.gen.str



chain nodes :

7 8 9 10 11 12 13 14 15 16 17 25 26 28

ring nodes :

1 2 3 4 5 6 18 19 20 21 22 23

chain bonds :

4-25 5-7 6-14 7-8 8-9 9-10 10-11 11-12 12-13 14-15 15-16 16-17 16-26
17-20

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 18-19 18-23 19-20 20-21 21-22 22-23

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 4-25 5-6 12-13 14-15 16-26

exact bonds :

5-7 6-14 7-8 8-9 9-10 10-11 11-12 15-16 16-17 17-20

normalized bonds :

18-19 18-23 19-20 20-21 21-22 22-23

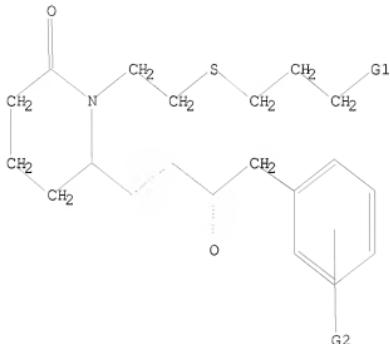
G1:C,S,P

G2:C,O,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom
19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 25:CLASS 26:CLASS 28:CLASS 29:Atom

=> d 11
L1 HAS NO ANSWERS
L1 STR



G1 C,S,P
G2 C,O,N

Structure attributes must be viewed using STN Express query preparation.

=> s 11 sss full
FULL SEARCH INITIATED 11:03:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 342 TO ITERATE

100.0% PROCESSED 342 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L2 1 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
178.82 179.03

FILE 'CAPLUS' ENTERED AT 11:03:13 ON 15 JUL 2008
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FILE COVERS 1907 - 15 Jul 2008 VOL 149 ISS 3
FILE LAST UPDATED: 14 Jul 2008 (20080714/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

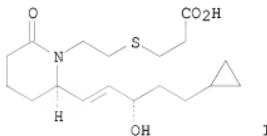
Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s 12
L3 2 L2

=> d 13 1-2 abs ibib hitstr

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
GI



AB 2-Piperidones, e.g., I, were prepared bearing heptanoic acid or a thioether heptanoic acid at the 1-position as well as appropriately substituted at the 6-position to mimic the structure of prostaglandins. The stereochemistry at the 6-position was determined to be ≥95% ee for an advanced synthetic intermediate. The 2-piperidones were identified as potent agonists at the EP4 prostanoïd receptor. They displayed a high affinity (Ki 5–130 nM) at EP4 and subtype selectivity.

ACCESSION NUMBER: 2005:378879 CAPLUS

DOCUMENT NUMBER: 143:59790

TITLE: Lactams as prostanoïd receptor ligands. Part 4:
 2-Piperidones as selective EP4 receptor agonists

AUTHOR(S): Elworthy, Todd R.; Brill, Emma R.; Caires, Christopher
 C.; Kim, Woongki; Lach, Leang K.; Tracy, Jahari
 Laurant; Chiou, San-San

CORPORATE SOURCE: Roche Palo Alto, Department of Medicinal Chemistry,
 Palo Alto, CA, 94304-1397, USA

SOURCE: Bioorganic & Medicinal Chemistry Letters (2005),
 15(10), 2523-2526
 CODEN: BMCLB8; ISSN: 0960-894X

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 143:59790

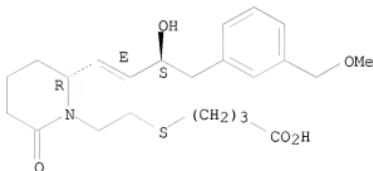
IT 724705-74-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
(Biological study); PREP (Preparation)
 (stereoselective preparation and EP4 receptor binding affinity of
 piperidones starting from amino adipic acid using resolution as the key
 step)

RN 724705-74-2 CAPLUS

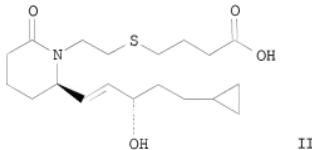
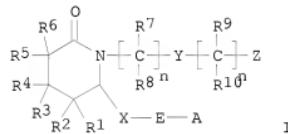
CN Butanoic acid, 4-[(2-[(2R)-2-[(1E,3S)-3-hydroxy-4-[3-(methoxymethyl)phenyl]-1-buten-1-yl]6-oxo-1-piperidinyl]ethyl]thio]- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
GI



AB 2-Piperidone derivs. I ($n = 0-4$; A = alkyl, aryl, heteroaryl, arylalkyl, arylcycloalkyl, cycloalkylalkyl, aryloxyalkyl; E = CHO_H, or C(O); Y = CH₂, CH:CH, arylene, heteroarylene, O, S(O)_p ($p = 0-2$), NR_a (R_a = H, alkyl); Z = CH₂OH, CHO, tetrazole-5-yl, COOR_b (R_b = H, alkyl); R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, R₁₀ = H, alkyl) and pharmaceutically acceptable salts, solvates, prodrugs, single isomers or racemic or non-racemic mixture of isomers thereof were prepared as selective prostaglandin EP4 agonists for the treatment of associated diseases. Thus, 6R-(1-ethoxyethoxymethyl)piperidin-2-one was treated with NaH, and 2-bromoethanol triisopropylsilyl ether, followed by pyridinium p-toluenesulfonic acid to give the alc. The alc. was oxidized to the aldehyde using Swern conditions, and treatment of the aldehyde with (4-cyclopropyl-2-oxobutyl)phosphonic acid di-Me ester gave the alkene. Reduction of the ketone

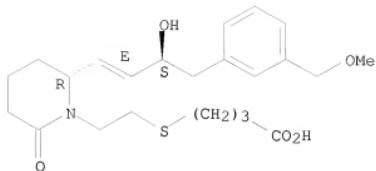
using (R)-2-methyl-CBS-oxazaborolidine followed by deprotection of the silyl ether gave the primary alc. Treatment of the alc. with γ -thiobutyrolactone gave the Me ester which was treated with NaOH to give the desired II. The invention also provides methods for preparing, compns. comprising, and methods for using compds. of formula I.

ACCESSION NUMBER: 2004:589253 CAPLUS
 DOCUMENT NUMBER: 141:123513
 TITLE: 2-piperidone derivatives as prostaglandin agonists
 INVENTOR(S): Elworthy, Todd Richard
 PATENT ASSIGNEE(S): Roche Palo Alto LLC, USA
 SOURCE: U.S. Pat. Appl. Publ., 26 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|------------------|-------------|
| US 20040142969 | A1 | 20040722 | US 2004-754117 | 20040108 |
| US 7271183 | B2 | 20070918 | | |
| AU 2004203905 | A1 | 20040729 | AU 2004-203905 | 20040102 |
| CA 2511255 | A1 | 20040729 | CA 2004-2511255 | 20040102 |
| WO 2004063158 | A1 | 20040729 | WO 2004-EP8 | 20040102 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ | | | | |
| EP 1585729 | A1 | 20051019 | EP 2004-700041 | 20040102 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| BR 2004005717 | A | 20051220 | BR 2004-6717 | 20040102 |
| CN 1735597 | A | 20060215 | CN 2004-80002071 | 20040102 |
| JP 2006515015 | T | 20060518 | JP 2005-518636 | 20040102 |
| RU 2311409 | C2 | 20071127 | RU 2005-125284 | 20040102 |
| IN 2005CN01522 | A | 20080404 | IN 2005-CN1522 | 20050705 |
| MX 2005PA07341 | A | 20050930 | MX 2005-PA7341 | 20050706 |
| KR 752891 | B1 | 20070828 | KR 2005-712774 | 20050708 |
| US 20080058375 | A1 | 20080306 | US 2007-895386 | 20070824 |
| PRIORITY APPLN. INFO.: | | | US 2003-439152P | P 20030110 |
| | | | WO 2004-EP8 | W 20040102 |
| | | | US 2004-754117 | A1 20040108 |

OTHER SOURCE(S): MARPAT 141:123513
 IT 724705-74-2P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 2-piperidone derivs. as selective prostaglandin EP4 agonists
 for the treatment of associated diseases)
 RN 724705-74-2 CAPLUS
 CN Butanoic acid, 4-[{2-[{(2R)-2-[(1E,3S)-3-hydroxy-4-[3-(methoxymethyl)phenyl]-1-buten-1-yl]-6-oxo-1-piperidinyl]ethyl]thio}- (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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STN INTERNATIONAL LOGOFF AT 11:04:22 ON 15 JUL 2008